

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently amended) A separator plate for a polymer electrolyte fuel cell comprising:
an electronic conductor portion containing conductive carbon; ~~and~~

an insulating portion surrounding said electronic conductor portion, said electronic
conductor portion having a first flow channel of a gas or cooling water on one side and having a
second flow channel of a gas or cooling water on the other side, and

a third portion between said electronic conductor portion and said insulating portion,

wherein said third portion comprises a mixture of a material used in said electronic
conductor portion and a material used in said insulating portion.

2. (Original) The separator plate for a polymer electrolyte fuel cell in accordance with
claim 1, wherein said electronic conductor portion and said insulating portion are molded
integrally, and said insulating portion has a pair of first manifold apertures communicating with
said first flow channel and a pair of second manifold apertures communicating with said second
flow channel.

3. (Cancelled)

4. (Currently amended) The separator plate for a polymer electrolyte fuel cell in
accordance with claim ~~[[3]]~~ 1, wherein said third portion comprises an adhesive material.

5. (Cancelled)

6. (Original) The separator plate for a polymer electrolyte fuel cell in accordance with claim 1, wherein said electronic conductor portion and said insulating portion are injection molded.

7. (Original) The separator plate for a polymer electrolyte fuel cell in accordance with claim 1, wherein said electronic conductor portion comprises a mixture of an inorganic conductive filler and a resin.

8. (Original) The separator plate for a polymer electrolyte fuel cell in accordance with claim 1, wherein said insulating portion comprises a gas-tight elastic material.

9. (Original) The separator plate for a polymer electrolyte fuel cell in accordance with claim 1, wherein said insulating portion comprises a thermoplastic resin.

10. (Original) The separator plate for a polymer electrolyte fuel cell in accordance with claim 1, wherein said electronic conductor portion and said insulating portion comprise a resin having the same main molecular structure.

11. (Original) The separator plate for a polymer electrolyte fuel cell in accordance with claim 10, wherein said resin having the same main molecular structure is polyphenylene sulfide.

12. (Original) The separator plate for a polymer electrolyte fuel cell in accordance with claim 1, wherein the joint between said electronic conductor portion and said insulating portion has a cross-section which comprises a combination of a projection and a depression.

13. (Original) The separator plate for a polymer electrolyte fuel cell in accordance with claim 12, wherein said projection is formed on said electronic conductor portion.

14. (Original) The separator plate for a polymer electrolyte fuel cell in accordance with claim 1; wherein the electronic conductor portion and the insulating portion are joined by inserting one of the electronic conductor portion and the insulating portion into a hole formed in the other portion.

15. (Original) The separator plate for a polymer electrolyte fuel cell in accordance with claim 14, wherein said hole is formed in said electronic conductor portion.

16. (Currently amended) A polymer electrolyte fuel cell comprising a cell stack, said cell stack including:

a plurality of membrane electrode assemblies, each comprising a hydrogen-ion conductive polymer electrolyte membrane and an anode and a cathode sandwiching said electrolyte membrane; and

a plurality of the separator plates that are stacked alternately with said membrane electrode assemblies,

wherein each of said separator plates comprises:

an electronic conductor portion containing conductive carbon; ~~and~~

an insulating portion surrounding said electronic conductor portion, and

a third portion between said electronic conductor portion and said insulating portion,

wherein said third portion comprises a mixture of a material used in said electronic conductor portion and a material used in said insulating portion, and

said electronic conductor portion has a first flow channel of a gas or cooling water on one side and has a second flow channel of a gas or cooling water on the other side.